Cost Research

Army Day

DODCAS 2004

13 February 2004

Single Award Lot Contractors

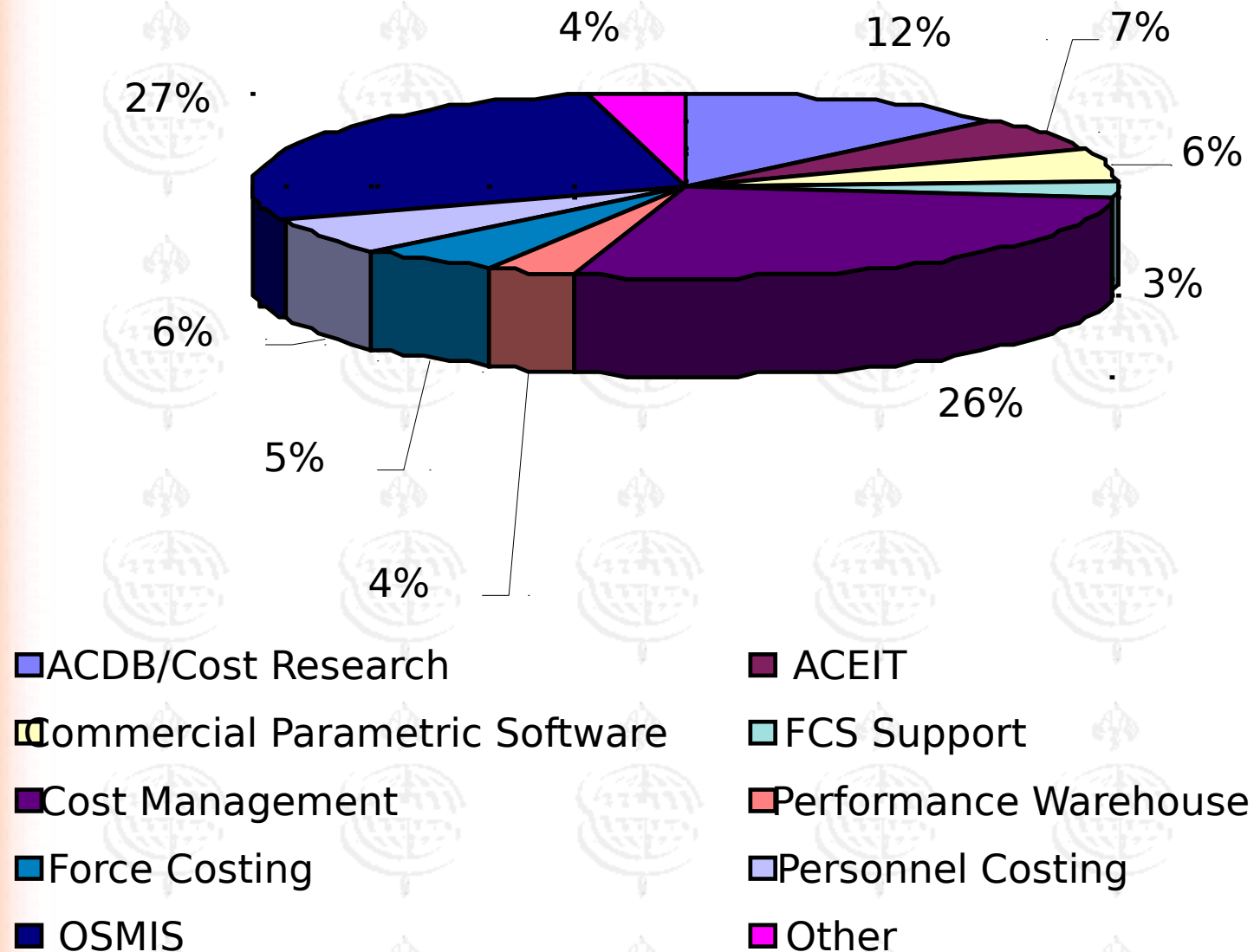| AREA	COMPANY
Operations & Support Data Collection, Analysis & Estimating	Calibre
Financial Management Operations	Calibre
Personnel/Forces Database	MAI
C^{4}ISR Database, Cost Research & Program Office Support	Technomics
Missile Database, Cost Research & Program Office Support	MCR
Wheeled, Tracked & Combat Vehicle Database & Cost Research	SAIC
Aircraft/Aviation Systems Database & Cost Research	Ketron

Future Technologies & General Support
Multiple Award Lot Contractors

1. Advanced Concepts and Technologies International, LLC (ACT-I)

   – Booz, Allen and Hamilton, Calibre Systems, CDO Technologies, Contemporary Management Systems, Day-Tech, Dulos Inc, TASC

2. Logistics Management Institute (lmi)

   – Battelle Memorial Institute, Summit Engineering Group

3. MCR Federal Inc. (MCR)

   - BAE Systems, Frontier Technologies Inc., Mission Research Corp., Wexford Group International

4. PRICE Systems, L.L.C.

   – Altarum, Quantech Services, Inc.

5. Technomics

6. Tecolote Research

   – Galorath Inc., Qualis, SAIC, SAS

7. Wyle Labs

   – NOESIS, Inc.
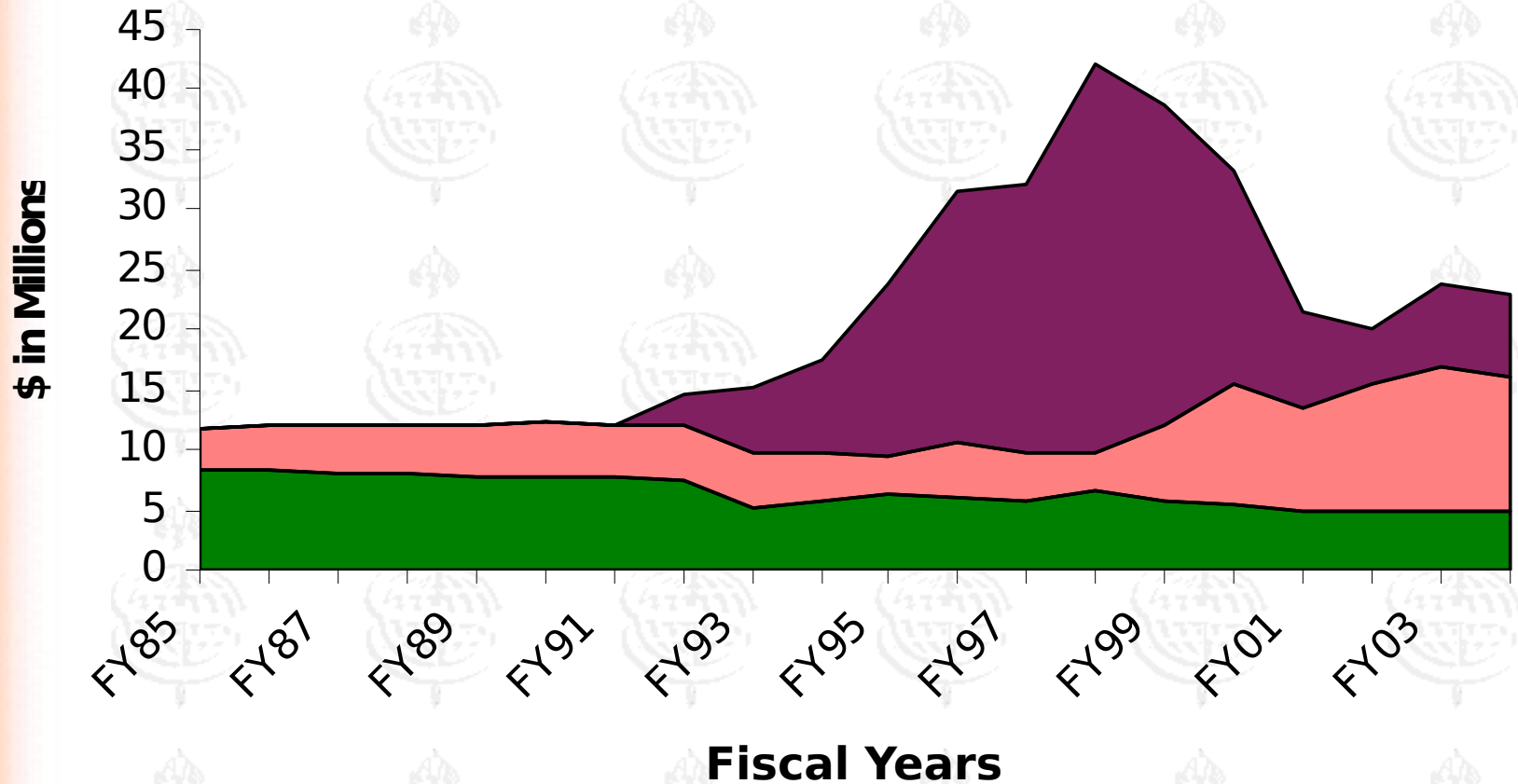
DASA-CE FY03 Contract Breakout

Pie chart segments (with percentages):
- 4%
- 12%
- 7%
- 6%
- 27%
- 3%
- 26%
- 6%
- 5%
- 4%

Legend:
- ACDB/Cost Research
- ACEIT
- Commercial Parametric Software
- FCS Support
- Cost Management
- Performance Warehouse
- Force Costing
- Personnel Costing
- OSMIS
- Other

Automated Cost Databases (ACDB)

- Databases updated annually

- Commodity Areas
  - Missile & Munitions
  - Aircraft/Aviation Systems
  - Wheeled, Tracked & Combat Vehicle
  - C^4ISR

- Database Contract
  - Collect Cost, Technical, Programmatic data
    - ✓ Sources: CCDR, CPR, Contracts, Accounting Records
  - Additional data collection to allow use of commercial parametric models
  - Attached documents (CARD, briefings, studies)

- Other
  - Commodity Specific Training
  - Analysis support

Commodity Specific Research
(Ongoing)

- Missile Propulsion Cost Performance Estimating Relationships (CPER)

- Analysis and Evaluation of Composite Materials for Vehicles

- Vehicle Non-Manufacturing Cost Factors

- Vehicle Family of Systems Factors

- Sensor CPER

Tasks:
  – Data collection
  – Develop CPER or factor
  – Additional data collection to allow use of commercial parametric models

Commodity Specific Research
(Future)

- Sensor Cost Performance Estimating Relationships (CPER)
  - Update CPER/CER for following technologies:
      IR, MMW, Acoustic, etc.

- Unmanned Aerial Vehicle Payload/Command & Control CPER

  Tasks:
  - Data collection
  - Develop CPER or factor
  - Additional data collection to allow use of commercial parametric models

Future Technologies & General Support
(Ongoing)

1. Integrated Performance Cost Model (IPCM)

2. Test & Evaluation Methodology Development

3. SDD Development Engineering Methodology Development Considering Evolutionary Acquisition Impacts

4. Turbojet/Turbofan Propulsion Unit Cost Performance Estimating Relationships

5. Automated Cost Estimating Integrated Tools (ACEIT)

Integrated Performance Cost Model (IPCM)

- What is IPCM?

  – Model that will interface cost models with models from other functional areas to perform

  – Analyst can interface with five different types of models:
    - Requirements
    - Effectiveness
    - Engineering
    - Cost
    - Logistics models

  – Capability
    - System level/component level trade-off analysis (AoA support)
    - CAIV analysis (Engineering support)
    - Cost Analysis (POE/ICE/ACP support)

  – Funded by the Army Modeling & Simulation Office

Integrated Performance Cost Model (IPCM)

- What is the status?

  - Four teams developed architecture approaches during study phase
  - Government team consisted of ODASA-CE, AMSO, PEO EIS, TRAC, RDECOM and PM FCS personnel
  - LMI/Battelle/Summit Engineering selected to develop a limited prototype model to demonstrate architecture
    - Using FIPER software for model integration
    - FIPER is an integration package that allows easy linkage and optimization of models
    - Prototype based on Joint Common Missile Program
    - Delivery expected at end of May 2004
  - Government team will review prototype model and architecture in June 2004
  - Release RFQ(s) for bid for next phase(s) of model development in late June-early July timeframe

Other Contracts

1. Commercial Parametric Modeling Software

   – PRICE Systems Models

   – Galorath SEER models

   – Licenses and training

   – Limited hours available for consulting services

2. Rayleigh Analyzer Spreadsheet Model

3. COTS Electronics Model (PACER)

   – Effort performed under an Air Force Contract
   – Development of Box level CER for selected components

For further information on research or models call (703) 601-4163